

A. CLASSIFICATION OF SUBJECT MATTER  
 IPC 7 A61L9/014 B01D53/84

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
 IPC 7 F24F B01D A61L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	SU 1 287 923 A1 (VNII BIOSINTEZA BELKOVYKH VESHCHESTV; FRUNZENSKIY POLT INSTITUT) 7 February 1987 (1987-02-07) abstract ----- EP 0 147 721 A (DECHEMA DEUTSCHE GESELLSCHAFT FUR CHEMISCHES APPARATEWESEN E.V) 10 July 1985 (1985-07-10) abstract page 1, lines 6-15 page 5, line 1 - page 6, line 11 page 8, lines 12-21 claims; examples ----- -/--	1,2,5,8, 9
X		9-17

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

° Special categories of cited documents :

- A• document defining the general state of the art which is not considered to be of particular relevance
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- Y• document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
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Date of the actual completion of the international search

22 June 2005

Date of mailing of the international search report

30/06/2005

Name and mailing address of the ISA

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 472 181 A (HERRLANDER ET AL) 18 September 1984 (1984-09-18)	9
A	figures 4a,4b the whole document	1-8, 10-17
X	----- DE 22 37 929 A1 (SCHUMACHER'SCHE FABRIK, 7120 BIETIGHEIM; SCHUMACHER'SCHE FABRIK GMBH &) 14 February 1974 (1974-02-14)	9-17
A	page 9 ----- US 6 403 366 B1 (KIM BYUNG JOON) 11 June 2002 (2002-06-11)	1-17
	column 1, lines 1-60; figures -----	

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
SU 1287923	A1	07-02-1987	NONE			
EP 0147721	A	10-07-1985	DE AT EP JP	3345944 A1 43074 T 0147721 A2 60175523 A		04-07-1985 15-06-1989 10-07-1985 09-09-1985
US 4472181	A	18-09-1984	SE AT AU AU CA DE EP JP JP JP SE	443930 B 22275 T 554774 B2 8348782 A 1175169 A1 3273287 D1 0064960 A1 1756840 C 4046608 B 57202283 A 8102901 A		17-03-1986 15-10-1986 04-09-1986 11-11-1982 25-09-1984 23-10-1986 17-11-1982 23-04-1993 30-07-1992 11-12-1982 08-12-1982
DE 2237929	A1	14-02-1974	NONE			
US 6403366	B1	11-06-2002	NONE			